

#7

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

GUICHARD et al.

Serial No. 09/549,186

Filed: April 13, 2000



Atty. Ref.: 1487-25

Group: 1634

Examiner:

For: RETRO PEPTIDES, ANTIBODIES THERETO
AND THEIR USES FOR VACCINATION
AND IN VITRO DIAGNOSIS

* * * * *

July 25, 2000

Assistant Commissioner for Patents
Washington, DC 20231


Sir:

LETTER

The attached paper and computer readable copy of the Sequence Listing are the same. No new matter has been added.

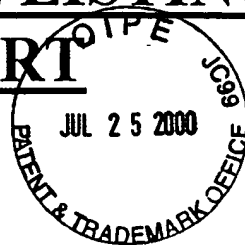
Respectfully submitted,

NIXON & VANDERHYE P.C.

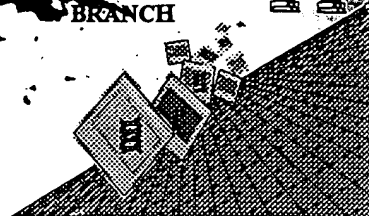
By: 
B.J. Sadoff
Reg. No. 36,663

BJS:maw
1100 North Glebe Road, 8th Floor
Arlington, VA 22201-4714
Telephone: (703) 816-4000
Facsimile: (703) 816-4100

RAW SEQUENCE LISTING **ERROR REPORT**



0200
BIOTECHNOLOGY
SYSTEMS
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number:

09/549,186

Art Unit / Team No. :

01/K6

Date Processed by STIC:

4/28/2000

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,

2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

MARK SPENCER 703-308-4212

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/549/186

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 Wrapped Aminos The amino acid number/text at the end of each line "wrapped " down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 Misaligned Amino Acid The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
Numbering between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 Variable Length Sequence(s) contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and
indicate in the (ix) feature section that some may be missing.
- 7 PatentIn ver. 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
sequence(s) . Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section
to the subsequent amino acid sequence.
- 8 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
(OLD RULES) (2) INFORMATION FOR SEQ ID NO:X:
 (i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
 This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
(NEW RULES) <210> sequence id number
 <400> sequence id number
 000
- 10 Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.
(NEW RULES) Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 Use of <213>Organism Sequence(s) are missing this mandatory field or its response.
(NEW RULES)
- 12 Use of <220>Feature Sequence(s) are missing the <220>Feature and associated headings.
(NEW RULES) Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted
file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.

OIPE

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/549,186

DATE: 05/03/2000
 TIME: 19:48:02

Input Set : A:\seqlist.txt
 Output Set: N:\CRF3\050300\I549186.raw

Does Not Comply
 Corrected Diskette Needed

P2

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3 <110> APPLICANT: Guichard, Gilles
4      Muller, Sylviane
5      Briand, Jean-Paul
6      Regenmortel, Marc
8 <120> TITLE OF INVENTION: Retropeptides, Antibodies Thereto, and Uses Thereof for
9      Vaccination and In Vitro Diagnosis
11 <130> FILE REFERENCE: 1487-25
C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/549,186
C--> 14 <141> CURRENT FILING DATE: 2000-04-13
16 <150> PRIOR APPLICATION NUMBER: US 08/716,249
17 <151> PRIOR FILING DATE: 1996-09-13
19 <150> PRIOR APPLICATION NUMBER: PCT/FR95/00292
20 <151> PRIOR FILING DATE: 1995-03-13
22 <150> PRIOR APPLICATION NUMBER: FR 94 02950
23 <151> PRIOR FILING DATE: 1994-03-14
25 <160> NUMBER OF SEQ ID NOS: 17
27 <170> SOFTWARE: PatentIn Ver. 2.0
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 19
31 <212> TYPE: PRT
32 <213> ORGANISM: protein VP1 of aphthous fever virus
34 <400> SEQUENCE: 1
35 Cys Gly Ser Gly Val Arg Gly Asp Ser Gly Ser Ala Leu Arg Val Ala
36   1                               5                10                15
38 Arg Gln Leu
42 <210> SEQ ID NO: 2
43 <211> LENGTH: 19
44 <212> TYPE: PRT
45 <213> ORGANISM: FMDV
47 <400> SEQUENCE: 2
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49   1                               5                10                15
51 Arg Gln Leu
55 <210> SEQ ID NO: 3
56 <211> LENGTH: 9
57 <212> TYPE: PRT
58 <213> ORGANISM: influenza virus
60 <400> SEQUENCE: 3
61 Gly Ile Leu Gly Phe Val Phe Thr Leu
62   1                               5
65 <210> SEQ ID NO: 4
66 <211> LENGTH: 15
67 <212> TYPE: PRT
68 <213> ORGANISM: tetanus toxin
70 <400> SEQUENCE: 4
71 Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu Leu
72   1                               5                10                15

```

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/549,186

DATE: 05/03/2000
 TIME: 19:48:02

Input Set : A:\seqlist.txt
 Output Set: N:\CRF3\050300\I549186.raw

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75 <210> SEQ ID NO: 5
76 <211> LENGTH: 9
77 <212> TYPE: PRT
78 <213> ORGANISM: human
80 <400> SEQUENCE: 5
81 Cys Gly Gly Ile Arg Gly Glu Arg Ala
82 1 5
85 <210> SEQ ID NO: 6
86 <211> LENGTH: 9
87 <212> TYPE: PRT
88 <213> ORGANISM: influenza virus
90 <400> SEQUENCE: 6
91 Gly Ile Leu Gly Phe Val Phe Thr Leu
92 1 5
95 <210> SEQ ID NO: 7
96 <211> LENGTH: 20
97 <212> TYPE: PRT
98 <213> ORGANISM: FMDV
100 <400> SEQUENCE: 7
101 Cys Gly Ser Gly Val Arg Gly Asp Phe Gly Ser Leu Ala Pro Arg Val
102 1 5 10 15
104 Ala Arg Gln Leu
105 20
108 <210> SEQ ID NO: 8
109 <211> LENGTH: 20
110 <212> TYPE: PRT
111 <213> ORGANISM: FMDV
113 <400> SEQUENCE: 8
114 Cys Gly Ser Gly Val Arg Gly Asp Phe Gly Ser Leu Ala Leu Arg Val
115 1 5 10 15
117 Ala Arg Gln Leu
118 20
121 <210> SEQ ID NO: 9
122 <211> LENGTH: 20
123 <212> TYPE: PRT
124 <213> ORGANISM: FMDV
126 <400> SEQUENCE: 9
127 Cys Gly Ser Gly Val Arg Gly Asp Ser Gly Ser Leu Ala Leu Arg Val
128 1 5 10 15
130 Ala Arg Gln Leu
131 20
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135 <211> LENGTH: 15
136 <212> TYPE: PRT
137 <213> ORGANISM: human
139 <400> SEQUENCE: 10
W--> 140 Gly Leu Lys Lys Xaa Leu Arg Thr Cys Ala Val His Ile Thr Leu
141 1 5 10 15
144 <210> SEQ ID NO: 11

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see seq 10 in Ena Summary Sheet

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/549,186
 DATE: 05/03/2000
 TIME: 19:48:02

Input Set : A:\seqlist.txt
 Output Set: N:\CRF3\050300\I549186.raw

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145 <211> LENGTH: 21
146 <212> TYPE: PRT
147 <213> ORGANISM: human
149 <400> SEQUENCE: 11
150 Val Cys Glu Lys Leu Cys Asn Glu Lys Leu Leu Lys Lys Ala Arg Ile
151 1 5 10 15
153 His Pro Phe His Ile
154 20
157 <210> SEQ ID NO: 12
158 <211> LENGTH: 18
159 <212> TYPE: PRT
160 <213> ORGANISM: human
162 <400> SEQUENCE: 12
163 Ser Ala Pro Ala Thr Gly Gly Val Lys Lys Pro His Arg Tyr Arg Pro
164 1 5 10 15
166 Gly Thr
170 <210> SEQ ID NO: 13
171 <211> LENGTH: 13
172 <212> TYPE: PRT
173 <213> ORGANISM: influenza virus
175 <400> SEQUENCE: 13
176 Ser Lys Arg Gly Pro Gly Ser Asp Phe Asp Gly Gly Cys
177 1 5 10
180 <210> SEQ ID NO: 14
181 <211> LENGTH: 18
182 <212> TYPE: PRT
183 <213> ORGANISM: influenza virus
185 <400> SEQUENCE: 14
186 Cys Lys Ala Phe Ser Asn Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala
187 1 5 10 15
189 Ser Leu
193 <210> SEQ ID NO: 15
194 <211> LENGTH: 15
195 <212> TYPE: PRT
196 <213> ORGANISM: Schistosoma mansoni
198 <400> SEQUENCE: 15
199 Cys Gly Phe Thr Thr Asn Glu Glu Arg Tyr Asn Val Phe Ala Glu
200 1 5 10 15
203 <210> SEQ ID NO: 16
204 <211> LENGTH: 9
205 <212> TYPE: PRT
206 <213> ORGANISM: measles virus
208 <400> SEQUENCE: 16
209 Asn Phe Leu Arg Glu Lys Lys Gln Cys
210 1 5
213 <210> SEQ ID NO: 17
214 <211> LENGTH: 13
215 <212> TYPE: PRT
216 <213> ORGANISM: HIV

```

RAW SEQUENCE LISTING

DATE: 05/03/2000

PATENT APPLICATION: US/09/549,186

TIME: 19:48:02

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\050300\I549186.raw

218 <400> SEQUENCE: 17
219 Ile Trp Gly Cys Ser Gly Lys Leu Ile Cys Thr Thr Ala
220 1 5 10

VERIFICATION SUMMARY

DATE: 05/03/2000

PATENT APPLICATION: US/09/549,186

TIME: 19:48:03

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\050300\I549186.raw

L:13 M:270 C: Current Application Number differs, Replaced Application Number
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:140 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:10
L:140 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:10
L:140 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:10
L:140 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:10
L:140 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:10